Raw Sequence Listing Error Summary

<u>ERROR DETECTED</u> <u>SUGGESTED CORRECTION</u>   SERIAL NUMBER: 09/483672

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

1 _____ Wrapped Nucleics   The number/text at the end of each line "wrapped" down to the next line.
This may occur if your file was retrieved in a word processor after creating it.
Please adjust your right margin to .3, as this will prevent "wrapping".

2 _____ Wrapped Aminos   The amino acid number/text at the end of each line "wrapped " down to the next line.
This may occur if your file was retrieved in a word processor after creating it.
Please adjust your right margin to .3, as this will prevent "wrapping".

3 _____ Incorrect Line Length   The rules require that a line not exceed 72 characters in length. This includes spaces.

4 √ Misaligned Amino Acid   The numbering under each 5th amino acid is misaligned. This may be caused by the use of tabs
Numbering   between the numbering. It is recommended to delete any tabs and use spacing between the numbers.

5 _____ Non-ASCII   This file was not saved in ASCII (DOS) text, as required by the Sequence Rules.
Please ensure your subsequent submission is saved in ASCII text so that it can be processed.

6 _____ Variable Length   Sequence(s) _____ contain n's or Xaa's which represented more than one residue.
As per the rules, each n or Xaa can only represent a single residue.
Please present the maximum number of each residue having variable length and
indicate in the (ix) feature section that some may be missing.

7 _____ PatentIn ver. 2.0 "bug"   A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid
sequence(s) _____. Normally, PatentIn would automatically generate this section from the
previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section
to the subsequent amino acid sequence.

8 _____ Skipped Sequences   Sequence(s) _____ missing. If intentional, please use the following format for each skipped sequence:
(OLD RULES)   (2) INFORMATION FOR SEQ ID NO:X:
(I) SEQUENCE CHARACTERISTICS:(Do not insert any headings under "SEQUENCE CHARACTERISTICS")
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X:
This sequence is intentionally skipped

Please also adjust the "(iii) NUMBER OF SEQUENCES:" response to include the skipped sequence(s).

9 _____ Skipped Sequences   Sequence(s) _____ missing. If intentional, please use the following format for each skipped sequence.
(NEW RULES)   **<210> sequence id number**
<400> sequence id number
000

10 _____ Use of n's or Xaa's   Use of n's and/or Xaa's have been detected in the Sequence Listing.
(NEW RULES)   Use of <220> to <223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

11 _____ Use of <213>Organism   Sequence(s) _____ are missing this mandatory field or its response.
(NEW RULES)

12 _____ Use of <220>Feature   Sequence(s) _____ are missing the <220>Feature and associated headings.
(NEW RULES)   Use of <220> to <223> is MANDATORY if <213>ORGANISM is "Artificial" or "Unknown"
Please explain source of genetic material in <220> to <223> section.
(See "Federal Register," 6/01/98, Vol. 63, No. 104, pp. 29631-32)   (Sec. 1.823 of new Rules)

13 _____ PatentIn ver. 2.0 "bug"   **Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted**
file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing).
Instead, please use "File Manager" or any other means to copy file to floppy disk.
AKS-Biotechnology Systems Branch- 5/15/99

> This Raw Listing contains the General
> Information Section and those Sequences
> containing ERRORS.

1	<110>	Xu, Jiangchun
2		Dillon, Davin C.
3		Mitcham, Jennifer L.
4		Harlocker, Susan Louise
5		Jiang Yuqui
6		Reed, Steven G.
7		Kalos, Michael
8		Fanger, Gary
9		Retter, Mark
10		Solk, John
11		Day, Craig
12	<120>	COMPOSITIONS AND METHODS FOR THERAPY AND
13		DIAGNOSIS OF PROSTATE CANCER
14	<130>	210121.427C10
15	<140>	US/09/483,672
16	<141>	2000-01-14
17	<160>	590
18	<170>	FastSEQ for Windows Version 3.0

Does Not Comply
Corrected Diskette Needed

errors throughout

ERRORED SEQUENCES FOLLOW

	19	<210>	26
	20	<211>	820
	21	<212>	DNA
	22	<213>	Homo sapien
	23	<220>	
	24	<221>	misc_feature
	25	<222>	(1)...(820)
	26	<223>	n = A,T,C or G
	27	<400>	26

next page

W-->	28	anattantac agtgtaatct tttcccagag gtgtgtanag ggaacggggc ctagaggcat	60
W-->	29	cccanagata ncttatanca acagtgcttt gaccaagagc tgctgggcac atttcctgca	120
	30	gaaaaggtgg cggtccccat cactcctcct ctcccatagc catcccagag gggtgagtag	180
W-->	31	ccatcangcc ttcggtggga gggagtcang gaaacaacan accacagagc anacagacca	240
W-->	32	ntgatgacca tgggcgggag cgagcctctt ccctgnaccg gggtggcana nganagccta	300
W-->	33	nctgaggggt cacactataa acgttaacga ccnagatnan cacctgcttc aagtgcaccc	360
W-->	34	ttcctacctg acnaccagng accnnnaact gcngcctggg gacagcnctg ggancagcta	420
W-->	35	acnnagcact cacctgcccc cccatggccg tncgcntccc tggtcctgnc aagggaagct	480
W-->	36	ccctgttgga attncgggga naccaaggga nccccctcct ccanctgtga aggaaaaann	540
W-->	37	gatggaattt tncccttccg gccnntcccc tcttccttta cacgcccct nntactcntc	600
W-->	38	tccctctntt ntcctgncnc acttttnacc ccnnnatttc ccttnattga tcggannctn	660
W-->	39	ganattccac tnncgcctnc cntcnatcng naanacnaaa nactntctna cccnggggat	720

| E--> | 40 | gggnncctcg ntcatcctct ctttttcnct accnccnntt ctttgcctct ccttngatca | 780tcca |

	41	<210> 383	
E-->	42	<211> (155) 154 *show*	
	43	<212> PRT	
	44	<213> Homo sapiens	
	45	<400> 383	

insert a hard return

```
 46        Met Ala Gly Val Arg Asp Gln Gly Gln Gly Ala Arg Trp Pro His Thr
 47                     5                  10                  15
 48        Gly Lys Arg Gly Pro Leu Leu Gln Gly Leu Thr Trp Ala Thr Gly Gly
 49                    20                  25                  30
 50        His Cys Phe Ser Ser Glu Glu Ser Gly Ala Val Asp Gly Ala Gly Gln
 51                    35                  40                  45
 52        Lys Lys Asp Arg Ala Trp Leu Arg Cys Pro Glu Ala Val Ala Gly Phe
 53                    50                  55                  60
 54        Pro Leu Gly Ser Asp Cys Arg Glu Gly Gly Arg Gln Gly Cys Gly Gly
 55                    65                  70                  75                  80
 56        Ser Asp Asp Glu Asp Asp Leu Gly Val Ala Pro Gly Leu Ala Pro Ala
 57                    85                  90                  95
 58        Trp Ala Leu Thr Gln Pro Pro Ser Gln Ser Pro Gly Pro Gln Ser Leu
 59                   100                 105                 110
 60        Pro Ser Thr Pro Ser Ser Ile Trp Pro Gln Trp Val Ile Leu Ile Thr
 61                   115                 120                 125
 62        Glu Leu Thr Ile Pro Ser Pro Ala His Gly Pro Pro Trp Leu Pro Asn
 63                   130                 135                 140
 64        Ala Leu Glu Arg Gly His Leu Val Arg Glu
 65                   145                 150
```

	66	<210> 477	
E-->	67	<211> (141) 140 *show*	
	68	<212> PRT	
	69	<213> Homo sapiens	
	70	<400> 477	

```
 71        Met Asp Gly His Thr Asp Ile Trp Arg Asn His Met Asp Thr Pro Pro
 72                     5                  10                  15
 73        His Tyr His Arg Asp Thr Asp Thr Arg Arg His His His Met Asp Thr
 74                    20                  25                  30
 75        Leu Ser His Tyr His Arg Asp Thr Arg His His Thr Val Thr Trp Thr
 76                    35                  40                  45
 77        His His His Thr His Glu His Thr Asp Thr Leu Pro Tyr Gly His Trp
 78                    50                  55                  60
 79        His Thr His Cys His Thr Val Thr Trp Thr His Leu His Thr Ile Thr
 80                    65                  70                  75                  80
 81        Pro Pro His Thr Leu Pro Val Asp Thr Arg Thr His Arg His Cys His
 82                    85                  90                  95
 83        Thr Asp Thr Gln Asn Thr Val Thr Arg Arg His His His Ala Asp Thr
 84                   100                 105                 110
 85        Pro Pro Leu Trp Cys Arg Leu Asn Tyr Pro Ala Gly Gly Thr Ala Val
 86                   115                 120                 125
 87        Ala Tyr Ser Cys Leu Ser Asp Trp Leu Ser Pro Gln
```

88	130	135	140

```
        89   <210> 478
E-->    90   <211> (144) 143
        91   <212> PRT
        92   <213> Homo sapiens
        93   <400> 478
        94        Met Tyr Arg His Thr Glu Thr Leu Pro His Gly Asp Thr Val Thr Gln
        95                        5                  10                  15
        96        Ser His Gly His Thr Gly Ile Val Thr Trp Thr Asp Thr Gln Thr Tyr
        97                       20                  25                  30
        98        Gly Glu Ile Thr Trp Thr His His His Thr Ile Thr Gly Thr Gln Thr
        99                       35                  40                  45
       100        His Gly Asp Ile Thr Thr Trp Thr His Cys His Thr Thr Thr Gly Thr
       101                       50                  55                  60
       102        Arg Asp Ile Thr Leu Ser His Gly His Thr Ile Thr His Met Asn Thr
       103                       65                  70                  75                  80
       104        Pro Thr His Cys His Met Asp Thr Gly Thr His Thr Ala Thr Leu Ser
       105                       85                  90                  95
       106        His Gly His Thr Ser Thr Pro Ser His His His Thr His Cys Leu Trp
       107                      100                 105                 110
       108        Thr Gln Gly His Thr Asp Thr Val Thr Gln Ile His Lys Thr Leu Ser
       109                      115                 120                 125
       110        His Gly Asp Ile Thr Met Gln Ile His His His Ser Gly Ala Val
       111                      130                 135                 140
```

```
       112   <210> 479
E-->   113   <211> (223) 222
       114   <212> PRT
       115   <213> Homo sapiens
       116   <400> 479
       117        Met Tyr Arg His Thr Glu Thr Leu Pro His Gly Asp Thr Val Thr Gln
       118                        5                  10                  15
       119        Ser His Glu His Thr Gly Ile Val Thr Trp Thr Asp Thr Gln Thr Tyr
       120                       20                  25                  30
       121        Gly Glu Ile Thr Leu Thr His His His Thr Ile Thr Gly Thr Gln Thr
       122                       35                  40                  45
       123        His Gly Asp Ile Thr Thr Trp Thr His Cys His Thr Thr Thr Gly Thr
       124                       50                  55                  60
       125        Arg Asp Ile Thr Leu Ser His Gly His Thr Ile Thr His Met Asn Thr
       126                       65                  70                  75                  80
       127        Pro Thr His Cys His Met Asp Thr Ala Thr His Thr Ala Thr Leu Ser
       128                       85                  90                  95
       129        His Gly His Thr Ser Ile Pro Ser His His His Thr His Cys His Val
       130                      100                 105                 110
       131        Asp Thr Arg Thr His Arg His Cys His Thr Asp Thr Gln Asn Thr Val
       132                      115                 120                 125
       133        Thr Arg Arg His His His Ala Asp Thr Pro Pro His Gly His Ser Thr
       134                      130                 135                 140
       135        Arg His Ser Ala Thr Gln Ile His His His Thr Glu Met Arg Thr His
```

```
136           145               150               155               160
137           Cys His Thr Asp Thr Thr Thr Ser Leu Pro His Phe His Val Ser Ala
138                           165               170               175
139           Gly Gly Val Gly Pro Thr Thr Leu Gly Ser Asn Arg Glu Ile Thr Trp
140                           180               185               190
141           Thr Tyr Ser Glu Gly Lys Ile Phe Phe Tyr Phe Leu Gly Asn Gln Ala
142                           195               200               205
143           Arg Leu Cys Leu Lys Lys Arg Lys Lys Lys Gln Tyr Thr Val
144               210               215               220
```

```
145    <210> 480
146    <211> 145  144
147    <212> PRT
148    <213> Homo sapiens
149    <400> 480
150           Met Glu Pro Tyr Arg Gly Asn Glu Gln Pro Ser Gln Glu Gln Gly Val
151                           5               10               15
152           Cys Cys Leu Trp Gly Leu Gln Ser Leu Pro Gln Gly Ser Tyr Val Thr
153                           20               25               30
154           Val Gly Phe Leu Val Val Lys Arg Gln Thr Ile Gly Arg Leu Glu Arg
155                           35               40               45
156           Asp Phe Met Phe Lys Cys Arg Lys Gln Pro Gly Leu Pro Pro Ser Gly
157                           50               55               60
158           Leu Cys Leu Leu Trp Pro Trp Pro Asn Leu Glu Phe Gly Arg Arg Gln
159               65               70               75               80
160           Asp Arg Leu Thr Trp Ser Ser Val Ser Val Ala Gly Val Cys Ala Cys
161                           85               90               95
162           Arg Ala Arg Pro Gly Trp Leu Gly Glu Gln Pro Ala Thr Ser Ala Gly
163                           100               105               110
164           Val Arg Leu Glu Gln Val Glu Gln Pro Pro Ala His Pro Leu Gln Glu
165                           115               120               125
166           Ala Gly Val Ala Arg Phe Pro Arg Pro Glu Trp Val Pro Pro Asn Gly
167               130               135               140
```

```
168    <210> 481
169    <211> 168  167
170    <212> PRT
171    <213> Homo sapiens
172    <400> 481
173           Met His Gly Pro Gln Val Leu Ala Arg Cys Ser Glu Cys Ala Cys Pro
174                           5               10               15
175           Ala Leu Ala Ala Thr Ser Ala Gly Val Arg Leu Glu Gly Val Asp Arg
176                           20               25               30
177           Pro Pro Thr Leu Pro Ser Gln Gly Ser Gly Trp Pro Cys Ser His Ser
178                           35               40               45
179           Leu Ser Gly Cys His Leu Met Ala Asp Gly Ala Lys Ala Leu Gly Lys
180               50               55               60
181           Ala Asp Gly Pro Trp Pro Tyr Leu Phe Val Arg Arg Thr Asp Val Pro
182               65               70               75               80
183           Cys Pro Ala Ala Ser Glu Val Gly Gly Cys Ala Pro Ser Ser Trp Arg
```


```
184                              85                    90                    95
185      Ala Leu Ala Glu Val Thr Gly Cys Ser Leu Gly Pro Leu Gly Leu Ala
186                             100                   105                   110
187      Gln His Ala Gln Ala Ser Val Leu Leu Leu Cys Tyr Lys Trp Ser His
188                             115                   120                   125
189      Ile Gly Glu Thr Ser Ser His Leu Arg Ser Lys Val Tyr Ala Ala Phe
190                             130                   135                   140
191      Gly Gly Ser Ser Pro Cys Leu Lys Gly Leu Met Ser Leu Trp Ala Ser
192      145                             150                   155                   160
193      Trp Leu Ser Arg Gly Arg Pro
194                             165
```

```
195      <210> 482
196  E--> <211> 144  143
197      <212> PRT
198      <213> Homo sapiens
199      <400> 482
200      Met Glu Pro Tyr Arg Gly Asn Lys Lys Gln Val Gln Glu Lys Gly Val
201                               5                    10                    15
202      Pro Cys Leu Trp Gly Ser Ser Pro Cys Leu Arg Cys His Met Ala Leu
203                              20                    25                    30
204      Arg Ala Ser Trp Leu Pro Gly Gly Gly Pro Gln Ala Ile Leu Gly Arg
205                              35                    40                    45
206      Thr Leu Cys Ser Ser Ala Glu Ser Ser Gln Asp Cys His Pro Gly Gly
207      50                             55                    60
208      Pro Ser Ile Ala Leu Ala Lys Pro Cys Arg Gly Val Trp Leu Leu Phe
209      65                             70                    75                    80
210      Glu Pro Ala Trp Pro Pro Trp His Ala Arg Ala Pro Gly Ala Gly Thr
211                              85                    90                    95
212      Leu Leu Arg Val Cys Leu Ser Cys Leu Gly Cys His Leu Cys Gly Gly
213                             100                   105                   110
214      Ala Ser Gly Gly Gly Gly Pro Ala Thr Asn Leu Thr Gln Ser Arg Lys
215                             115                   120                   125
216      Trp Met Ala Met Phe Pro Gln Pro Glu Trp Leu Pro Pro Asp Gly
217      130                             135                   140
```

```
218      <210> 483
219  E--> <211> 144  143
220      <212> PRT
221      <213> Homo sapiens
222      <400> 483
223      Met Glu Thr Gln Arg Gly Asn Lys Gln Arg Ala Gln Glu Gln Gly Val
224                               5                    10                    15
225      Cys Cys Leu Trp Gly Ser Ser Pro Cys Leu Gly Ser Tyr Gly Thr Ala
226                              20                    25                    30
227      Gly Phe Leu Val Ala Lys Arg Arg Thr Thr Gly Leu Leu Glu Glu Asp
228                              35                    40                    45
229      Phe Thr Phe Lys Cys Arg Lys Gln Pro Lys Leu Pro Ser Met Arg Leu
230      50                             55                    60
231      Ser Leu Leu Trp Pro Trp Arg Asp Leu Lys Phe Val Pro Arg Gln Asp
```

```
232              65                    70                    75                    80
233         Lys Leu Thr Arg Ser Ser Val Ser Val Ala Gly Ala Tyr Ala Cys Arg
234                       85                    90                    95
235         Ala Gly Pro Gly Trp Leu Lys Glu Gln Pro Ala Thr Ser Ala Arg Val
236                       100                   105                   110
237         Arg Leu Val Gln Ala Glu His Pro Pro Pro His Pro Leu Glu Glu Val
238                       115                   120                   125
239         Gly Met Ala Arg Phe Pro Gln Pro Glu Cys Leu Pro Pro Tyr Cys
240                       130                   135                   140
```

```
241    <210> 523
242    <211> 254
243    <212> PRT
244    <213> Artificial Sequence
245    <220>
246    <223> Made in a lab
247    <400> 523
248         Met Ala Thr Ala Gly Asn Pro Trp Gly Trp Phe Leu Gly Tyr Leu Ile
249         1                 5                     10                    15
250         Leu Gly Val Ala Gly Ser Leu Val Ser Gly Ser Cys Ser Gln Ile Ile
251                       20                    25                    30
252         Asn Gly Glu Asp Cys Ser Pro His Ser Gln Pro Trp Gln Ala Ala Leu
253                       35                    40                    45
254         Val Met Glu Asn Glu Leu Phe Cys Ser Gly Val Leu Val His Pro Gln
255                       50                    55                    60
256         Trp Val Leu Ser Ala Thr His Cys Phe Gln Asn Ser Tyr Thr Ile Gly
257         65                    70                    75                    80
258         Leu Gly Leu His Ser Leu Glu Ala Asp Gln Glu Pro Gly Ser Gln Met
259                       85                    90                    95
260         Val Glu Ala Ser Leu Ser Val Arg His Pro Glu Tyr Asn Arg Pro Leu
261                       100                   105                   110
262         Leu Ala Asn Asp Leu Met Leu Ile Lys Leu Asp Glu Ser Val Ser Glu
263                       115                   120                   125
264         Ser Asp Thr Ile Arg Ser Ile Ser Ile Ala Ser Gln Cys Pro Thr Ala
265                       130                   135                   140
266         Gly Asn Ser Cys Leu Val Ser Gly Trp Gly Leu Leu Ala Asn Gly Arg
267         145                   150                   155                   160
268         Met Pro Thr Val Leu Gln Cys Val Asn Val Ser Val Val Ser Glu Glu
269                       165                   170                   175
270         Val Cys Ser Lys Leu Tyr Asp Pro Leu Tyr His Pro Ser Met Phe Cys
271                       180                   185                   190
272         Ala Gly Gly Gly Gln Xaa Gln Xaa Asp Ser Cys Asn Gly Asp Ser Gly
273                       195                   200                   205
274         Gly Pro Leu Ile Cys Asn Gly Tyr Leu Gln Gly Leu Val Ser Phe Gly
275                       210                   215                   220
276         Lys Ala Pro Cys Gly Gln Val Gly Val Pro Gly Val Tyr Thr Asn Leu
277         225                   230                   235                   240
278         Cys Lys Phe Thr Glu Trp Ile Glu Lys Thr Val Gln Ala Ser
279         245-250          245              250
```

```
280    <210> 525
```

W--> (handwritten note near line 272-275): see item 10 from Error summary Sheet

E--> (handwritten note near line 279): misaligned number - do not use TAB codes between numbers

(see item 4 on Error summary Sheet)

```
281   <211> 254
282   <212> PRT
283   <213> Homo sapien
284   <400> 525
285        Met Ala Thr Ala Gly Asn Pro Trp Gly Trp Phe Leu Gly Tyr Leu Ile
286        1               5                   10                  15
287        Leu Gly Val Ala Gly Ser Leu Val Ser Gly Ser Cys Ser Gln Ile Ile
288                    20                  25                  30
289        Asn Gly Glu Asp Cys Ser Pro His Ser Gln Pro Trp Gln Ala Ala Leu
290                    35                  40                  45
291        Val Met Glu Asn Glu Leu Phe Cys Ser Gly Val Leu Val His Pro Gln
292                    50                  55                  60
293        Trp Val Leu Ser Ala Ala His Cys Phe Gln Asn Ser Tyr Thr Ile Gly
294        65                  70                  75                  80
295        Leu Gly Leu His Ser Leu Glu Ala Asp Gln Glu Pro Gly Ser Gln Met
296                    85                  90                  95
297        Val Glu Ala Ser Leu Ser Val Arg His Pro Glu Tyr Asn Arg Pro Leu
298                    100                 105                 110
299        Leu Ala Asn Asp Leu Met Leu Ile Lys Leu Asp Glu Ser Val Ser Glu
300                    115                 120                 125
301        Ser Asp Thr Ile Arg Ser Ile Ser Ile Ala Ser Gln Cys Pro Thr Ala
302                    130                 135                 140
303        Gly Asn Ser Cys Leu Val Ser Gly Trp Gly Leu Leu Ala Asn Gly Arg
304        145                 150                 155                 160
305        Met Pro Thr Val Leu Gln Cys Val Asn Val Ser Val Val Ser Glu Glu
306                    165                 170                 175
307        Val Cys Ser Lys Leu Tyr Asp Pro Leu Tyr His Pro Ser Met Phe Cys
308                    180                 185                 190
309        Ala Gly Gly Gly Gln Asp Gln Lys Asp Ser Cys Asn Gly Asp Ser Gly
310                    195                 200                 205
311        Gly Pro Leu Ile Cys Asn Gly Tyr Leu Gln Gly Leu Val Ser Phe Gly
312                    210                 215                 220
313        Lys Ala Pro Cys Gly Gln Val Gly Val Pro Gly Val Tyr Thr Asn Leu
314        225                 230                 235                 240
315        Cys Lys Phe Thr Glu Trp Ile Glu Lys Thr Val Gln Ala Ser
```

E--> 316   ⟨245 250⟩ *fix numbering*

```
317   <210> 527
```

E--> 318   ⟨211⟩ ⟨321⟩ *320 (next page)*

```
319   <212> PRT
320   <213> Homo sapiens
321   <400> 527
322        Met Ser Ser Cys Asn Phe Thr His Ala Thr Phe Val Leu Ile Gly Ile
323                        5                   10                  15
324        Pro Gly Leu Glu Lys Ala His Phe Trp Val Gly Phe Pro Leu Leu Ser
325                    20                  25                  30
326        Met Tyr Val Val Ala Met Phe Gly Asn Cys Ile Val Val Phe Ile Val
327                    35                  40                  45
328        Arg Thr Glu Arg Ser Leu His Ala Pro Met Tyr Leu Phe Leu Cys Met
329                    50                  55                  60
```

```
330        Leu Ala Ala Ile Asp Leu Ala Leu Ser Thr Ser Thr Met Pro Lys Ile
331         65              70              75              80
332        Leu Ala Leu Phe Trp Phe Asp Ser Arg Glu Ile Ser Phe Glu Ala Cys
333                     85              90              95
334        Leu Thr Gln Met Phe Phe Ile His Ala Leu Ser Ala Ile Glu Ser Thr
335                    100             105             110
336        Ile Leu Leu Ala Met Ala Phe Asp Arg Tyr Val Ala Ile Cys His Pro
337                    115             120             125
338        Leu Arg His Ala Ala Val Leu Asn Asn Thr Val Thr Ala Gln Ile Gly
339                    130             135             140
340        Ile Val Ala Val Val Arg Gly Ser Leu Phe Phe Phe Pro Leu Pro Leu
341        145             150             155             160
342        Leu Ile Lys Arg Leu Ala Phe Cys His Ser Asn Val Leu Ser His Ser
343                    165             170             175
344        Tyr Cys Val His Gln Asp Val Met Lys Leu Ala Tyr Ala Asp Thr Leu
345                    180             185             190
346        Pro Asn Val Val Tyr Gly Leu Thr Ala Ile Leu Leu Val Met Gly Val
347                    195             200             205
348        Asp Val Met Phe Ile Ser Leu Ser Tyr Phe Leu Ile Ile Arg Thr Val
349        210             215             220
350        Leu Gln Leu Pro Ser Lys Ser Glu Arg Ala Lys Ala Phe Gly Thr Cys
351        225             230             235             240
352        Val Ser His Ile Gly Val Val Leu Ala Phe Tyr Val Pro Leu Ile Gly
353                    245             250             255
354        Leu Ser Val Val His Arg Phe Gly Asn Ser Leu His Pro Ile Val Arg
355                    260             265             270
356        Val Val Met Gly Asp Ile Tyr Leu Leu Leu Pro Pro Val Ile Asn Pro
357                    275             280             285
358        Ile Ile Tyr Gly Ala Lys Thr Lys Gln Ile Arg Thr Arg Val Leu Ala
359                    290             295             300
360        Met Phe Lys Ile Ser Cys Asp Lys Asp Leu Gln Ala Val Gly Gly Lys
361        305             310             315             320
```

```
362        <210> 532
E-->  363        <211> 293  292 (next page)
      364        <212> PRT
      365        <213> Homo sapiens
      366        <400> 532
      367        Met His Leu Ser Phe Pro Ala Phe Leu Pro Pro Trp Met Asp Arg Gly
      368                      5              10              15
      369        Ser Gly Lys Ser Asn Val Gly Thr Ser Gly Asp His Asn Asp Ser Ser
      370                     20              25              30
      371        Val Lys Thr Leu Gly Ser Lys Arg Cys Lys Trp Cys Cys His Cys Phe
      372                     35              40              45
      373        Pro Cys Cys Arg Gly Ser Gly Lys Ser Asn Val Val Ala Trp Gly Asp
      374                     50              55              60
      375        Tyr Asp Asp Ser Ala Phe Met Asp Pro Arg Tyr His Val His Gly Glu
      376        65              70              75              80
      377        Asp Leu Asp Lys Leu His Arg Ala Ala Trp Trp Gly Lys Val Pro Arg
      378                     85              90              95
```

```
379      Lys Asp Leu Ile Val Met Leu Arg Asp Thr Asp Val Asn Lys Arg Asp
380                  100                 105                 110
381      Lys Gln Lys Arg Thr Ala Leu His Leu Ala Ser Ala Asn Gly Asn Ser
382              115                 120                 125
383      Glu Val Val Lys Leu Val Leu Asp Arg Arg Cys Gln Leu Asn Val Leu
384          130                 135                 140
385      Asp Asn Lys Lys Arg Thr Ala Leu Thr Lys Ala Val Gln Cys Gln Glu
386      145                 150                 155                 160
387      Asp Glu Cys Ala Leu Met Leu Leu Glu His Gly Thr Asp Pro Asn Ile
388                  165                 170                 175
389      Pro Asp Glu Tyr Gly Asn Thr Thr Leu His Tyr Ala Val Tyr Asn Glu
390                  180                 185                 190
391      Asp Lys Leu Met Ala Lys Ala Leu Leu Leu Tyr Gly Ala Asp Ile Glu
392              195                 200                 205
393      Ser Lys Asn Lys His Gly Leu Thr Pro Leu Leu Leu Gly Ile His Glu
394          210                 215                 220
395      Gln Lys Gln Gln Val Val Lys Phe Leu Ile Lys Lys Lys Ala Asn Leu
396      225                 230                 235                 240
397      Asn Ala Leu Asp Arg Tyr Gly Arg Thr Ala Leu Ile Leu Ala Val Cys
398                  245                 250                 255
399      Cys Gly Ser Ala Ser Ile Val Ser Pro Leu Leu Glu Gln Asn Val Asp
400                  260                 265                 270
401      Val Ser Ser Gln Asp Leu Glu Arg Arg Pro Glu Ser Met Leu Phe Leu
402              275                 280                 285
403      Val Ile Ile Met
404          290
```

```
405      <210> 534
```
E--> ```406   <211> (267) 266 (next page)
407   <212> PRT
408   <213> Homo sapiens
409   <400> 534
410   Met Tyr Lys Leu Gln Cys Asn Asn Cys Ala Thr Asn Gly Ala Thr Glu
411   5   10   15
412   Arg Lys Gln Ala Ala Gly Ser Gly Ala Gly Tyr Ala Leu Pro Ser Ala
413   20   25   30
414   Leu Gln Ser Met Pro Gln Gly Ser Tyr Ala Thr Ala Arg Phe Leu Val
415   35   40   45
416   Ala Lys Arg Pro Thr Thr Gly His Leu Glu Lys Glu Phe Met Phe His
417   50   55   60
418   Cys Arg Lys Gln Pro Gly Ser Pro Ser Arg Gly Leu Gly Leu Leu Trp
419   65   70   75   80
420   Pro Trp Pro Asp Ile Glu Phe Val Pro Arg Gln Asp Lys Leu Thr Gln
421   85   90   95
422   Ser Ser Val Leu Val Pro Gln Ile Cys Ala Cys Gln Thr Arg Pro Asn
423   100   105   110
424   Trp Leu Asn Glu Gln Pro Ala Thr Ser Ala Gly Val Arg Leu Glu Glu
425   115   120   125
426   Val Asp Gln Pro Pro Thr Leu Pro Ser Gln Gly Ser Gly Trp Pro Cys
427   130   135   140
```

```
428   Ser His Ser Leu Ser Gly Cys His Leu Met Ala Asp Ile Ala Lys Ala
429   145   150   155   160
430   Leu Gly Lys Ala Asp Gly Pro Trp Pro Tyr Leu Phe Val Arg Arg Thr
431   165   170   175
432   Asp Val Pro Cys Pro Ala Ala Ser Glu Val Gly Gly Cys Ala Pro Ser
433   180   185   190
434   Ser Trp His Thr Leu Ala Glu Val Thr Gly Cys Ser Leu Ser Pro Leu
435   195   200   205
436   Ser Leu Ala Gln His Ala Gln Ala Ser Val Leu Leu Leu Cys Tyr Lys
437   210   215   220
438   Trp Ser His Ile Gly Glu Thr Ser Ser His Leu Arg Ser Lys Val Tyr
439   225   230   235   240
440   Ala Ala Phe Gly Gly Ser Ser Pro Cys Leu Lys Gly Leu Met Ser Leu
441   245   250   255
442   Trp Ala Ser Trp Leu Pro Arg Gly Arg Pro
443   260   265
```
---
```
444   <210> 537
E--> 445   <211> 1229 /1228 (p.13)
446   <212> PRT
447   <213> Homo sapiens
448   <400> 537
449   Met Leu Pro Val Tyr Gln Glu Val Lys Pro Asn Pro Leu Gln Asp Ala
450   5   10   15
451   Asn Leu Cys Ser Arg Val Phe Phe Trp Trp Leu Asn Pro Leu Phe Lys
452   20   25   30
453   Ile Gly His Lys Arg Arg Leu Glu Glu Asp Asp Met Tyr Ser Val Leu
454   35   40   45
455   Pro Glu Asp Arg Ser Gln His Leu Gly Glu Glu Leu Gln Gly Phe Trp
456   50   55   60
457   Asp Lys Glu Val Leu Arg Ala Glu Asn Asp Ala Gln Lys Pro Ser Leu
458   65   70   75   80
459   Thr Arg Ala Ile Ile Lys Cys Tyr Trp Lys Ser Tyr Leu Val Leu Gly
460   85   90   95
461   Ile Phe Thr Leu Ile Glu Glu Ser Ala Lys Val Ile Gln Pro Ile Phe
462   100   105   110
463   Leu Gly Lys Ile Ile Asn Tyr Phe Glu Asn Tyr Asp Pro Met Asp Ser
464   115   120   125
465   Val Ala Leu Asn Thr Ala Tyr Ala Tyr Ala Thr Val Leu Thr Phe Cys
466   130   135   140
467   Thr Leu Ile Leu Ala Ile Leu His His Leu Tyr Phe Tyr His Val Gln
468   145   150   155   160
469   Cys Ala Gly Met Arg Leu Arg Val Ala Met Cys His Met Ile Tyr Arg
470   165   170   175
471   Lys Ala Leu Arg Leu Ser Asn Met Ala Met Gly Lys Thr Thr Thr Gly
472   180   185   190
473   Gln Ile Val Asn Leu Leu Ser Asn Asp Val Asn Lys Phe Asp Gln Val
474   195   200   205
475   Thr Val Phe Leu His Phe Leu Trp Ala Gly Pro Leu Gln Ala Ile Ala
476   210   215   220
```

| 477 | Val | Thr | Ala | Leu | Leu | Trp | Met | Glu | Ile | Gly | Ile | Ser | Cys | Leu | Ala | Gly |
| 478 | 225 | | | | | 230 | | | | 235 | | | | | 240 | |
| 479 | Met | Ala | Val | Leu | Ile | Ile | Leu | Leu | Pro | Leu | Gln | Ser | Cys | Phe | Gly | Lys |
| 480 | | | | 245 | | | | | 250 | | | | | 255 | | |
| 481 | Leu | Phe | Ser | Ser | Leu | Arg | Ser | Lys | Thr | Ala | Thr | Phe | Thr | Asp | Ala | Arg |
| 482 | | | | 260 | | | | | 265 | | | | 270 | | | |
| 483 | Ile | Arg | Thr | Met | Asn | Glu | Val | Ile | Thr | Gly | Ile | Arg | Ile | Ile | Lys | Met |
| 484 | | | 275 | | | | | 280 | | | | | 285 | | | |
| 485 | Tyr | Ala | Trp | Glu | Lys | Ser | Phe | Ser | Asn | Leu | Ile | Thr | Asn | Leu | Arg | Lys |
| 486 | | 290 | | | | | 295 | | | | | 300 | | | | |
| 487 | Lys | Glu | Ile | Ser | Lys | Ile | Leu | Arg | Ser | Ser | Cys | Leu | Arg | Gly | Met | Asn |
| 488 | 305 | | | | | 310 | | | | | 315 | | | | | 320 |
| 489 | Leu | Ala | Ser | Phe | Phe | Ser | Ala | Ser | Lys | Ile | Ile | Val | Phe | Val | Thr | Phe |
| 490 | | | | | 325 | | | | | 330 | | | | | 335 | |
| 491 | Thr | Thr | Tyr | Val | Leu | Leu | Gly | Ser | Val | Ile | Thr | Ala | Ser | Arg | Val | Phe |
| 492 | | | | 340 | | | | | 345 | | | | | 350 | | |
| 493 | Val | Ala | Val | Thr | Leu | Tyr | Gly | Ala | Val | Arg | Leu | Thr | Val | Thr | Leu | Phe |
| 494 | | | 355 | | | | | 360 | | | | | 365 | | | |
| 495 | Phe | Pro | Ser | Ala | Ile | Glu | Arg | Val | Ser | Glu | Ala | Ile | Val | Ser | Ile | Arg |
| 496 | | 370 | | | | | 375 | | | | | 380 | | | | |
| 497 | Arg | Ile | Gln | Thr | Phe | Leu | Leu | Leu | Asp | Glu | Ile | Ser | Gln | Arg | Asn | Arg |
| 498 | 385 | | | | | 390 | | | | | 395 | | | | | 400 |
| 499 | Gln | Leu | Pro | Ser | Asp | Gly | Lys | Lys | Met | Val | His | Val | Gln | Asp | Phe | Thr |
| 500 | | | | | 405 | | | | | 410 | | | | | 415 | |
| 501 | Ala | Phe | Trp | Asp | Lys | Ala | Ser | Glu | Thr | Pro | Thr | Leu | Gln | Gly | Leu | Ser |
| 502 | | | | 420 | | | | | 425 | | | | | 430 | | |
| 503 | Phe | Thr | Val | Arg | Pro | Gly | Glu | Leu | Leu | Ala | Val | Val | Gly | Pro | Val | Gly |
| 504 | | | 435 | | | | | 440 | | | | | 445 | | | |
| 505 | Ala | Gly | Lys | Ser | Ser | Leu | Leu | Ser | Ala | Val | Leu | Gly | Glu | Leu | Ala | Pro |
| 506 | | 450 | | | | | 455 | | | | | 460 | | | | |
| 507 | Ser | His | Gly | Leu | Val | Ser | Val | His | Gly | Arg | Ile | Ala | Tyr | Val | Ser | Gln |
| 508 | 465 | | | | | 470 | | | | | 475 | | | | | 480 |
| 509 | Gln | Pro | Trp | Val | Phe | Ser | Gly | Thr | Leu | Arg | Ser | Asn | Ile | Leu | Phe | Gly |
| 510 | | | | | 485 | | | | | 490 | | | | | 495 | |
| 511 | Lys | Lys | Tyr | Glu | Lys | Glu | Arg | Tyr | Glu | Lys | Val | Ile | Lys | Ala | Cys | Ala |
| 512 | | | | 500 | | | | | 505 | | | | | 510 | | |
| 513 | Leu | Lys | Lys | Asp | Leu | Gln | Leu | Leu | Glu | Asp | Gly | Asp | Leu | Thr | Val | Ile |
| 514 | | | 515 | | | | | 520 | | | | | 525 | | | |
| 515 | Gly | Asp | Arg | Gly | Thr | Thr | Leu | Ser | Gly | Gly | Gln | Lys | Ala | Arg | Val | Asn |
| 516 | | 530 | | | | | 535 | | | | | 540 | | | | |
| 517 | Leu | Ala | Arg | Ala | Val | Tyr | Gln | Asp | Ala | Asp | Ile | Tyr | Leu | Leu | Asp | Asp |
| 518 | 545 | | | | | 550 | | | | | 555 | | | | | 560 |
| 519 | Pro | Leu | Ser | Ala | Val | Asp | Ala | Glu | Val | Ser | Arg | His | Leu | Phe | Glu | Leu |
| 520 | | | | | 565 | | | | | 570 | | | | | 575 | |
| 521 | Cys | Ile | Cys | Gln | Ile | Leu | His | Glu | Lys | Ile | Thr | Ile | Leu | Val | Thr | His |
| 522 | | | | 580 | | | | | 585 | | | | | 590 | | |
| 523 | Gln | Leu | Gln | Tyr | Leu | Lys | Ala | Ala | Ser | Gln | Ile | Leu | Ile | Leu | Lys | Asp |
| 524 | | | 595 | | | | | 600 | | | | | 605 | | | |
| 525 | Gly | Lys | Met | Val | Gln | Lys | Gly | Thr | Tyr | Thr | Glu | Phe | Leu | Lys | Ser | Gly |
| 526 | | 610 | | | | | 615 | | | | | 620 | | | | |

| 527 | Ile | Asp | Phe | Gly | Ser | Leu | Leu | Lys | Lys | Asp | Asn | Glu | Glu | Ser | Glu | Gln |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 528 | 625 | | | | 630 | | | | 635 | | | | | 640 | | |
| 529 | Pro | Pro | Val | Pro | Gly | Thr | Pro | Thr | Leu | Arg | Asn | Arg | Thr | Phe | Ser | Glu |
| 530 | | | | | 645 | | | | 650 | | | | | 655 | | |
| 531 | Ser | Ser | Val | Trp | Ser | Gln | Gln | Ser | Ser | Arg | Pro | Ser | Leu | Lys | Asp | Gly |
| 532 | | | | 660 | | | | 665 | | | | 670 | | | | |
| 533 | Ala | Leu | Glu | Ser | Gln | Asp | Thr | Glu | Asn | Val | Pro | Val | Thr | Leu | Ser | Glu |
| 534 | | | 675 | | | | 680 | | | | | 685 | | | | |
| 535 | Glu | Asn | Arg | Ser | Glu | Gly | Lys | Val | Gly | Phe | Gln | Ala | Tyr | Lys | Asn | Tyr |
| 536 | | 690 | | | | 695 | | | | | 700 | | | | | |
| 537 | Phe | Arg | Ala | Gly | Ala | His | Trp | Ile | Val | Phe | Ile | Phe | Leu | Ile | Leu | Leu |
| 538 | 705 | | | | 710 | | | | 715 | | | | | 720 | | |
| 539 | Asn | Thr | Ala | Ala | Gln | Val | Ala | Tyr | Val | Leu | Gln | Asp | Trp | Trp | Leu | Ser |
| 540 | | | | 725 | | | | 730 | | | | | 735 | | | |
| 541 | Tyr | Trp | Ala | Asn | Lys | Gln | Ser | Met | Leu | Asn | Val | Thr | Val | Asn | Gly | Gly |
| 542 | | | 740 | | | | 745 | | | | | 750 | | | | |
| 543 | Gly | Asn | Val | Thr | Glu | Lys | Leu | Asp | Leu | Asn | Trp | Tyr | Leu | Gly | Ile | Tyr |
| 544 | | 755 | | | | 760 | | | | | 765 | | | | | |
| 545 | Ser | Gly | Leu | Thr | Val | Ala | Thr | Val | Leu | Phe | Gly | Ile | Ala | Arg | Ser | Leu |
| 546 | | 770 | | | | 775 | | | | | 780 | | | | | |
| 547 | Leu | Val | Phe | Tyr | Val | Leu | Val | Asn | Ser | Ser | Gln | Thr | Leu | His | Asn | Lys |
| 548 | 785 | | | | 790 | | | | | 795 | | | | | | 800 |
| 549 | Met | Phe | Glu | Ser | Ile | Leu | Lys | Ala | Pro | Val | Leu | Phe | Phe | Asp | Arg | Asn |
| 550 | | | | | 805 | | | | 810 | | | | | 815 | | |
| 551 | Pro | Ile | Gly | Arg | Ile | Leu | Asn | Arg | Phe | Ser | Lys | Asp | Ile | Gly | His | Leu |
| 552 | | | 820 | | | | 825 | | | | | 830 | | | | |
| 553 | Asp | Asp | Leu | Leu | Pro | Leu | Thr | Phe | Leu | Asp | Phe | Ile | Gln | Thr | Leu | Leu |
| 554 | | | 835 | | | | 840 | | | | | 845 | | | | |
| 555 | Gln | Val | Val | Gly | Val | Val | Ser | Val | Ala | Val | Ala | Val | Ile | Pro | Trp | Ile |
| 556 | | 850 | | | | 855 | | | | | 860 | | | | | |
| 557 | Ala | Ile | Pro | Leu | Val | Pro | Leu | Gly | Ile | Ile | Phe | Ile | Phe | Leu | Arg | Arg |
| 558 | 865 | | | | 870 | | | | 875 | | | | | 880 | | |
| 559 | Tyr | Phe | Leu | Glu | Thr | Ser | Arg | Asp | Val | Lys | Arg | Leu | Glu | Ser | Thr | Thr |
| 560 | | | | | 885 | | | | 890 | | | | | 895 | | |
| 561 | Arg | Ser | Pro | Val | Phe | Ser | His | Leu | Ser | Ser | Ser | Leu | Gln | Gly | Leu | Trp |
| 562 | | | | 900 | | | | 905 | | | | | 910 | | | |
| 563 | Thr | Ile | Arg | Ala | Tyr | Lys | Ala | Glu | Glu | Arg | Cys | Gln | Glu | Leu | Phe | Asp |
| 564 | | | 915 | | | | 920 | | | | | 925 | | | | |
| 565 | Ala | His | Gln | Asp | Leu | His | Ser | Glu | Ala | Trp | Phe | Leu | Phe | Leu | Thr | Thr |
| 566 | | 930 | | | | 935 | | | | | 940 | | | | | |
| 567 | Ser | Arg | Trp | Phe | Ala | Val | Arg | Leu | Asp | Ala | Ile | Cys | Ala | Met | Phe | Val |
| 568 | 945 | | | | 950 | | | | 955 | | | | | 960 | | |
| 569 | Ile | Ile | Val | Ala | Phe | Gly | Ser | Leu | Ile | Leu | Ala | Lys | Thr | Leu | Asp | Ala |
| 570 | | | | 965 | | | | 970 | | | | | 975 | | | |
| 571 | Gly | Gln | Val | Gly | Leu | Ala | Leu | Ser | Tyr | Ala | Leu | Thr | Leu | Met | Gly | Met |
| 572 | | | | 980 | | | | 985 | | | | | 990 | | | |
| 573 | Phe | Gln | Trp | Cys | Val | Arg | Gln | Ser | Ala | Glu | Val | Glu | Asn | Met | Met | Ile |
| 574 | | | 995 | | | | 1000 | | | | | 1005 | | | | |
| 575 | Ser | Val | Glu | Arg | Val | Ile | Glu | Tyr | Thr | Asp | Leu | Glu | Lys | Glu | Ala | Pro |
| 576 | | 1010 | | | | 1015 | | | | | 1020 | | | | | |

```
        577        Trp Glu Tyr Gln Lys Arg Pro Pro Pro Ala Trp Pro His Glu Gly Val        Start
E-->    578        1025            1030            ←1035            ←1040   numbers
        579        Ile Ile Phe Asp Asn Val Asn Phe Met Tyr Ser Pro Gly Gly Pro Leu   under
        580                1045            1050            1055            first
        581        Val Leu Lys His Leu Thr Ala Leu Ile Lys Ser Gln Glu Lys Val Gly   letter
        582                1060            1065            1070                of amino
        583        Ile Val Gly Arg Thr Gly Ala Gly Lys Ser Ser Leu Ile Ser Ala Leu    acid
        584            1075            1080            1085
        585        Phe Arg Leu Ser Glu Pro Glu Gly Lys Ile Trp Ile Asp Lys Ile Leu
        586            1090            1095            1100
        587        Thr Thr Glu Ile Gly Leu His Asp Leu Arg Lys Lys Met Ser Ile Ile
E-->    588        1105            1110            1115            1120
        589        Pro Gln Glu Pro Val Leu Phe Thr Gly Thr Met Arg Lys Asn Leu Asp
        590                1125            1130            1135
        591        Pro Phe Asn Glu His Thr Asp Glu Glu Leu Trp Asn Ala Leu Gln Glu
        592                -1140            1145            1150
        593        Val Gln Leu Lys Glu Thr Ile Glu Asp Leu Pro Gly Lys Met Asp Thr   same
        594            1155            1160            1165                errors
        595        Glu Leu Ala Glu Ser Gly Ser Asn Phe Ser Val Gly Gln Arg Gln Leu
        596            1170            1175            1180
        597        Val Cys Leu Ala Arg Ala Ile Leu Arg Lys Asn Gln Ile Leu Ile Ile
E-->    598        1185            1190            1195            1200
        599        Asp Glu Ala Thr Ala Asn Val Asp Pro Arg Thr Asp Glu Leu Ile Gln
        600                1205            1210            1215
        601        Lys Lys Ser Gly Arg Asn Leu Pro Thr Ala Pro Cys
        602                1220            1225
```

```
        603        <210> 538              1261  (p.16)
E-->    604        <211> 1262
        605        <212> PRT
        606        <213> Homo sapiens
        607        <400> 538
        608        Met Tyr Ser Val Leu Pro Glu Asp Arg Ser Gln His Leu Gly Glu Glu
        609                5              10              15
        610        Leu Gln Gly Phe Trp Asp Lys Glu Val Leu Arg Ala Glu Asn Asp Ala
        611                20              25              30
        612        Gln Lys Pro Ser Leu Thr Arg Ala Ile Ile Lys Cys Tyr Trp Lys Ser
        613                35              40              45
        614        Tyr Leu Val Leu Gly Ile Phe Thr Leu Ile Glu Glu Ser Ala Lys Val
        615            50              55              60
        616        Ile Gln Pro Ile Phe Leu Gly Lys Ile Ile Asn Tyr Phe Glu Asn Tyr
        617        65              70              75              80
        618        Asp Pro Met Asp Ser Val Ala Leu Asn Thr Ala Tyr Ala Tyr Ala Thr
        619                85              90              95
        620        Val Leu Thr Phe Cys Thr Leu Ile Leu Ala Ile Leu His His Leu Tyr
        621                100             105             110
        622        Phe Tyr His Val Gln Cys Ala Gly Met Arg Leu Arg Val Ala Met Cys
        623            115             120             125
        624        His Met Ile Tyr Arg Lys Ala Leu Arg Leu Ser Asn Met Ala Met Gly
        625            130             135             140
```

626	Lys Thr Thr Thr Gly Gln Ile Val Asn Leu Leu Ser Asn Asp Val Asn
627	145 150 155 160
628	Lys Phe Asp Gln Val Thr Val Phe Leu His Phe Leu Trp Ala Gly Pro
629	165 170 175
630	Leu Gln Ala Ile Ala Val Thr Ala Leu Leu Trp Met Glu Ile Gly Ile
631	180 185 190
632	Ser Cys Leu Ala Gly Met Ala Val Leu Ile Ile Leu Leu Pro Leu Gln
633	195 200 205
634	Ser Cys Phe Gly Lys Leu Phe Ser Ser Leu Arg Ser Lys Thr Ala Thr
635	210 215 220
636	Phe Thr Asp Ala Arg Ile Arg Thr Met Asn Glu Val Ile Thr Gly Ile
637	225 230 235 240
638	Arg Ile Ile Lys Met Tyr Ala Trp Glu Lys Ser Phe Ser Asn Leu Ile
639	245 250 255
640	Thr Asn Leu Arg Lys Lys Glu Ile Ser Lys Ile Leu Arg Ser Ser Cys
641	260 265 270
642	Leu Arg Gly Met Asn Leu Ala Ser Phe Phe Ser Ala Ser Lys Ile Ile
643	275 280 285
644	Val Phe Val Thr Phe Thr Thr Tyr Val Leu Leu Gly Ser Val Ile Thr
645	290 295 300
646	Ala Ser Arg Val Phe Val Ala Val Thr Leu Tyr Gly Ala Val Arg Leu
647	305 310 315 320
648	Thr Val Thr Leu Phe Phe Pro Ser Ala Ile Glu Arg Val Ser Glu Ala
649	325 330 335
650	Ile Val Ser Ile Arg Arg Ile Gln Thr Phe Leu Leu Leu Asp Glu Ile
651	340 345 350
652	Ser Gln Arg Asn Arg Gln Leu Pro Ser Asp Gly Lys Lys Met Val His
653	355 360 365
654	Val Gln Asp Phe Thr Ala Phe Trp Asp Lys Ala Ser Glu Thr Pro Thr
655	370 375 380
656	Leu Gln Gly Leu Ser Phe Thr Val Arg Pro Gly Glu Leu Leu Ala Val
657	385 390 395 400
658	Val Gly Pro Val Gly Ala Gly Lys Ser Ser Leu Leu Ser Ala Val Leu
659	405 410 415
660	Gly Glu Leu Ala Pro Ser His Gly Leu Val Ser Val His Gly Arg Ile
661	420 425 430
662	Ala Tyr Val Ser Gln Gln Pro Trp Val Phe Ser Gly Thr Leu Arg Ser
663	435 440 445
664	Asn Ile Leu Phe Gly Lys Lys Tyr Glu Lys Glu Arg Tyr Glu Lys Val
665	450 455 460
666	Ile Lys Ala Cys Ala Leu Lys Lys Asp Leu Gln Leu Leu Glu Asp Gly
667	465 470 475 480
668	Asp Leu Thr Val Ile Gly Asp Arg Gly Thr Thr Leu Ser Gly Gly Gln
669	485 490 495
670	Lys Ala Arg Val Asn Leu Ala Arg Ala Val Tyr Gln Asp Ala Asp Ile
671	500 505 510
672	Tyr Leu Leu Asp Asp Pro Leu Ser Ala Val Asp Ala Glu Val Ser Arg
673	515 520 525
674	His Leu Phe Glu Leu Cys Ile Cys Gln Ile Leu His Glu Lys Ile Thr
675	530 535 540

676	Ile Leu Val Thr His Gln Leu Gln Tyr Leu Lys Ala Ala Ser Gln Ile
677	545 550 555 560
678	Leu Ile Leu Lys Asp Gly Lys Met Val Gln Lys Gly Thr Tyr Thr Glu
679	565 570 575
680	Phe Leu Lys Ser Gly Ile Asp Phe Gly Ser Leu Leu Lys Lys Asp Asn
681	580 585 590
682	Glu Glu Ser Glu Gln Pro Pro Val Pro Gly Thr Pro Thr Leu Arg Asn
683	595 600 605
684	Arg Thr Phe Ser Glu Ser Ser Val Trp Ser Gln Gln Ser Ser Arg Pro
685	610 615 620
686	Ser Leu Lys Asp Gly Ala Leu Glu Ser Gln Asp Thr Glu Asn Val Pro
687	625 630 635 640
688	Val Thr Leu Ser Glu Glu Asn Arg Ser Glu Gly Lys Val Gly Phe Gln
689	645 650 655
690	Ala Tyr Lys Asn Tyr Phe Arg Ala Gly Ala His Trp Ile Val Phe Ile
691	660 665 670
692	Phe Leu Ile Leu Leu Asn Thr Ala Ala Gln Val Ala Tyr Val Leu Gln
693	675 680 685
694	Asp Trp Trp Leu Ser Tyr Trp Ala Asn Lys Gln Ser Met Leu Asn Val
695	690 695 700
696	Thr Val Asn Gly Gly Gly Asn Val Thr Glu Lys Leu Asp Leu Asn Trp
697	705 710 715 720
698	Tyr Leu Gly Ile Tyr Ser Gly Leu Thr Val Ala Thr Val Leu Phe Gly
699	725 730 735
700	Ile Ala Arg Ser Leu Leu Val Phe Tyr Val Leu Val Asn Ser Ser Gln
701	740 745 750
702	Thr Leu His Asn Lys Met Phe Glu Ser Ile Leu Lys Ala Pro Val Leu
703	755 760 765
704	Phe Phe Asp Arg Asn Pro Ile Gly Arg Ile Leu Asn Arg Phe Ser Lys
705	770 775 780
706	Asp Ile Gly His Leu Asp Asp Leu Leu Pro Leu Thr Phe Leu Asp Phe
707	785 790 795 800
708	Ile Gln Thr Leu Leu Gln Val Val Gly Val Val Ser Val Ala Val Ala
709	805 810 815
710	Val Ile Pro Trp Ile Ala Ile Pro Leu Val Pro Leu Gly Ile Ile Phe
711	820 825 830
712	Ile Phe Leu Arg Arg Tyr Phe Leu Glu Thr Ser Arg Asp Val Lys Arg
713	835 840 845
714	Leu Glu Ser Thr Thr Arg Ser Pro Val Phe Ser His Leu Ser Ser Ser
715	850 855 860
716	Leu Gln Gly Leu Trp Thr Ile Arg Ala Tyr Lys Ala Glu Glu Arg Cys
717	865 870 875 880
718	Gln Glu Leu Phe Asp Ala His Gln Asp Leu His Ser Glu Ala Trp Phe
719	885 890 895
720	Leu Phe Leu Thr Thr Ser Arg Trp Phe Ala Val Arg Leu Asp Ala Ile
721	900 905 910
722	Cys Ala Met Phe Val Ile Ile Val Ala Phe Gly Ser Leu Ile Leu Ala
723	915 920 925
724	Lys Thr Leu Asp Ala Gly Gln Val Gly Leu Ala Leu Ser Tyr Ala Leu
725	930 935 940

```
        726        Thr Leu Met Gly Met Phe Gln Trp Cys Val Arg Gln Ser Ala Glu Val
        727        945               950               955               960
        728        Glu Asn Met Met Ile Ser Val Glu Arg Val Ile Glu Tyr Thr Asp Leu
        729                        965               970               975
        730        Glu Lys Glu Ala Pro Trp Glu Tyr Gln Lys Arg Pro Pro Pro Ala Trp
        731                        980               985               990
        732        Pro His Glu Gly Val Ile Ile Phe Asp Asn Val Asn Phe Met Tyr Ser
        733                        995               1000              1005
        734        Pro Gly Gly Pro Leu Val Leu Lys His Leu Thr Ala Leu Ile Lys Ser
        735                    1010              1015              1020
        736        Gln Glu Lys Val Gly Ile Val Gly Arg Thr Gly Ala Gly Lys Ser Ser
E-->    737         1025              1030              1035              1040
        738        Leu Ile Ser Ala Leu Phe Arg Leu Ser Glu Pro Glu Gly Lys Ile Trp
        739                        1045              1050              1055
        740        Ile Asp Lys Ile Leu Thr Thr Glu Ile Gly Leu His Asp Leu Arg Lys
        741                    1060              1065              1070
        742        Lys Met Ser Ile Ile Pro Gln Glu Pro Val Leu Phe Thr Gly Thr Met
        743                    1075              1080              1085
        744        Arg Lys Asn Leu Asp Pro Phe Asn Glu His Thr Asp Glu Glu Leu Trp
        745                    1090              1095              1100
        746        Asn Ala Leu Gln Glu Val Gln Leu Lys Glu Thr Ile Glu Asp Leu Pro
E-->    747         1105              1110              1115              1120
        748        Gly Lys Met Asp Thr Glu Leu Ala Glu Ser Gly Ser Asn Phe Ser Val
        749                    1125              1130              1135
        750        Gly Gln Arg Gln Leu Val Cys Leu Ala Arg Ala Ile Leu Arg Lys Asn
        751                    1140              1145              1150
        752        Gln Ile Leu Ile Ile Asp Glu Ala Thr Ala Asn Val Asp Pro Arg Thr
        753                    1155              1160              1165
        754        Asp Glu Leu Ile Gln Lys Lys Ile Arg Glu Lys Phe Ala His Cys Thr
        755                    1170              1175              1180
        756        Val Leu Thr Ile Ala His Arg Leu Asn Thr Ile Ile Asp Ser Asp Lys
E-->    757         1185              1190              1195              1200
        758        Ile Met Val Leu Asp Ser Gly Arg Leu Lys Glu Tyr Asp Glu Pro Tyr
        759                    1205              1210              1215
        760        Val Leu Leu Gln Asn Lys Glu Ser Leu Phe Tyr Lys Met Val Gln Gln
        761                    1220              1225              1230
        762        Leu Gly Lys Ala Glu Ala Ala Ala Leu Thr Glu Thr Ala Lys Gln Arg
        763                    1235              1240              1245
        764        Trp Gly Phe Thr Met Leu Ala Arg Leu Val Ser Asn Ser
        765                    1250              1255              1260
```

```
        766     <210> 551
E-->    767     <211> 15      ||
        768     <212> PRT
        769     <213> Artificial Sequence
        770     <220>
        771     <223> Made in a lab
        772     <400> 551
        773        Phe Asp Lys Ser Asp Leu Ala Lys Tyr Ser Ala    <- add numbering
                    1               5               10
```

```
        774     <210> 574
```

```
E-->  775   <211> 63  62
      776   <212> PRT
      777   <213> Homo sapiens
      778   <400> 574
      779         Met Thr His Ser Ser Ala Trp Leu Glu Arg Pro Gln Glu Thr Tyr Asn
      780                         5                   10                  15
      781         His Gly Gly Arg Arg Arg Gly Ser Lys Ala Arg Leu Thr Trp Trp Gln
      782                         20                  25                  30
      783         Glu Arg Thr Ser Glu Gly Gly Asp Cys His Lys Leu Phe Phe Phe Glu
      784                     35                  40                  45
      785         Thr Arg Val Trp Pro Cys Cys Pro Gly Trp Ser Ala Val Ala
      786             50                  55                  60
```

```
      787   <210> 575
E-->  788   <211> 77  76
      789   <212> PRT
      790   <213> Homo sapiens
      791   <400> 575
      792         Met Val Lys Ser Arg Phe Thr Lys Asn Thr Lys Ile Thr Gln Ala Trp
      793                         5                   10                  15
      794         Trp Arg Ala Pro Val Ile Pro Gly Thr Arg Glu Ala Glu Gly Gly Glu
      795                         20                  25                  30
      796         Ser Leu Glu Pro Gly Arg Leu Arg Glu Glu Asn Arg Leu Asn Pro Gly
      797                     35                  40                  45
      798         Gly Arg Gly Cys Ser Glu Pro Arg Ser Cys Cys Cys Thr Pro Ala Trp
      799             50                  55                  60
      800         Ser Thr Glu Gln Asp Ser Ala Ser Lys Thr Asn Lys
      801             65                  70                  75
```

```
      802   <210> 576
E-->  803   <211> 69  68
      804   <212> PRT
      805   <213> Homo sapiens
      806   <220>
      807   <221> unsure
      808   <222> (42)
      809   <223> Xaa = Any Amino Acid
      810   <400> 576
      811         Met Leu Gly Lys Ser Arg Ala Val Cys Leu Pro Ser Thr Thr Val Thr
      812                         5                   10                  15
      813         Thr Val Cys Tyr Leu Ala Ser Ser Ser Ala Ser Arg Glu Thr Ala Thr
      814                     20                  25                  30
W-->OK 815         Arg Gln Ala Pro Gly Asn Trp Lys Met Xaa Ser Lys Cys His Ala Gln
      816                     35                  40                  45
      817         Leu Leu Phe Thr Phe Tyr Leu Asn His Phe Tyr Gln Ile Arg Leu Asn
      818             50                  55                  60
      819         Pro Gly Tyr Ser
      820             65
```

```
      821   <210> 577
```

E--> 822   <211> (58) 57
     823   <212> PRT
     824   <213> Homo sapiens
     825   <400> 577
     826   Met Tyr Leu Glu Asn Ser Phe Tyr Cys Gln Met Ile Leu Leu Lys Arg
     827   5   10   15
     828   Cys Arg Leu Ser Lys Ile Ser Thr Gln Arg Val Val Pro Asp Gly Pro
     829   20   25   30
     830   Pro Ala Pro Val Pro Gly Ser Phe Pro Met Phe Pro Arg Phe Gly Phe
     831   35   40   45
     832   Arg Leu Ala Pro Pro Ala Asp Thr Pro
     833   50   55

     834   <210> 578
E--> 835   <211> (52) 51
     836   <212> PRT
     837   <213> Homo sapiens
     838   <400> 578
     839   Met Gln Leu Ile Tyr Leu Cys Phe Leu Gly Leu Leu Tyr Ile Arg His
     840   5   10   15
     841   His Asp Ser Gln Ser Phe Val Ile Leu Tyr Tyr Lys Lys Leu Asn Tyr
     842   20   25   30
     843   Tyr Phe Lys Tyr Gly Gln Ile Arg Ala Phe His Ile Ala Lys Val Tyr
     844   35   40   45
     845   Gln Pro His
     846   50

     847   <210> 579
E--> 848   <211> (57) 56
     849   <212> PRT
     850   <213> Homo sapiens
     851   <400> 579
     852   Met His Phe Thr Phe Met Gln Leu Ile Tyr Leu Cys Phe Leu Gly Leu
     853   5   10   15
     854   Leu Tyr Ile Arg His His Asp Ser Gln Ser Phe Val Ile Leu Tyr Tyr
     855   20   25   30
     856   Lys Lys Leu Asn Tyr Tyr Phe Lys Tyr Gly Gln Ile Arg Ala Phe His
     857   35   40   45
     858   Ile Ala Lys Val Tyr Gln Pro His
     859   50   55

     860   <210> 580
E--> 861   <211> (68) 67
     862   <212> PRT
     863   <213> Homo sapiens
     864   <400> 580
     865   Met Glu Leu Arg Thr Lys Ala Leu Arg Thr Ala Gln Gln Leu Thr Ser
     866   5   10   15
     867   Cys Val Thr Ala Leu Lys Ala Ala Gly Pro Pro Leu Thr Phe Trp Lys
     868   20   25   30

```
869          Gly Lys Trp Val Gln Cys Cys Leu Pro Leu Trp Gly Leu Leu Gly Ser
870                   35                  40                  45
871          His Ala Phe Tyr Ile Tyr Ala Val Asp Ile Phe Met Phe Pro Gly Ser
872               50                  55                  60
873          Phe Ile His
874           65
```

```
        875  <210> 581
E-->    876  <211> 78  77
        877  <212> PRT
        878  <213> Homo sapiens
        879  <400> 581
        880          Met Leu Glu Val Lys Phe Glu Val Ser Leu Arg Pro Thr Gly Asn Glu
        881                   5                  10                  15
        882          Thr Ala Gly Gln Thr His Gly Thr Gln Asp Lys Gly Ser Lys Asp Ser
        883               20                  25                  30
        884          Thr Ala Ala Asp Ile Leu Cys Asp Ser Leu Glu Ser Ser Arg Pro Ala
        885               35                  40                  45
        886          Ala His Ile Leu Glu Gly Lys Met Gly Thr Met Leu Ser Ala Thr Leu
        887               50                  55                  60
        888          Gly Pro Ser Trp Val Thr Cys Ile Leu His Leu Cys Ser
        889           65                  70                  75
```

```
        890  <210> 582
E-->    891  <211> 52  51
        892  <212> PRT
        893  <213> Homo sapiens
        894  <400> 582
        895          Met Leu Phe Leu Gln Thr Ile Asp Thr Lys Cys Thr Gly Ile Glu Ile
        896                   5                  10                  15
        897          Asn Arg Asn Trp Ser Lys Val Trp His Thr His Ser His Val Asp Val
        898               20                  25                  30
        899          Lys Leu Cys Leu Glu Phe Leu Cys Gly Val Trp Phe Gly Leu Gly Phe
        900               35                  40                  45
        901          Leu Gly Val
        902           50
```

```
        903  <210> 583
E-->    904  <211> 61  60
        905  <212> PRT
        906  <213> Homo sapiens
        907  <400> 583
        908          Met Ser Thr Ser Asp Gly Phe Ala Pro Pro Pro Gln Leu Gly Ser Arg
        909                   5                  10                  15
        910          Cys Ser His Ile Arg Gly Pro Ile Lys Ile Ala Arg Asn Lys Phe Pro
        911               20                  25                  30
        912          Arg Thr Leu Thr Ser Gln Glu Leu Arg Arg Phe Ala Glu Tyr Ser Gly
        913               35                  40                  45
        914          Met Met Phe Gly Asp Gln Thr Thr Ala Gly Gln Lys
        915               50                  55                  60
```

	916	<210> 584
E-->	917	<211> (77) 76
	918	<212> PRT
	919	<213> Homo sapiens
	920	<400> 584

```
921        Met Cys Leu Cys Ile Pro Leu Gly Gly Tyr Gln Glu Leu Cys His Cys
922                          5                  10                  15
923        Met Ser Thr Ser Asp Gly Phe Ala Pro Pro Gln Leu Gly Ser Arg
924                         20                  25                  30
925        Cys Ser His Ile Arg Gly Pro Ile Lys Ile Ala Arg Asn Lys Phe Pro
926                     35                  40                  45
927        Arg Thr Leu Thr Ser Gln Glu Leu Arg Arg Phe Ala Glu Tyr Ser Gly
928                     50                  55                  60
929        Met Met Phe Gly Asp Gln Thr Thr Ala Gly Gln Lys
930             65                  70                  75
```

	931	<210> 585
E-->	932	<211> (51) 50
	933	<212> PRT
	934	<213> Homo sapiens
	935	<400> 585

```
936        Met Val Tyr Arg Phe Gly Gln Met Ser Asp Asn Pro Phe Tyr Ile Leu
937                          5                  10                  15
938        Ala Ser Leu Gly Ser Ser Ser Cys Arg Asn Gly Leu Ala Ser Lys Trp
939                         20                  25                  30
940        Arg Gln Ala Asp Pro Ser Asp Gly Tyr Met Glu Pro Cys Phe Gln Leu
941                     35                  40                  45
942        Leu Phe
943             50
```

	944	<210> 586
E-->	945	<211> (61) 60
	946	<212> PRT
	947	<213> Homo sapiens
	948	<400> 586

```
949        Met Leu Val His Ile Tyr Ser Cys Cys Gly Met Val Tyr Arg Phe Gly
950                          5                  10                  15
951        Gln Met Ser Asp Asn Pro Phe Tyr Ile Leu Ala Ser Leu Gly Ser Ser
952                         20                  25                  30
953        Ser Cys Arg Asn Gly Leu Ala Ser Lys Trp Arg Gln Ala Asp Pro Ser
954                     35                  40                  45
955        Asp Gly Tyr Met Glu Pro Cys Phe Gln Leu Leu Phe
956             50                  55                  60
```

VERIFICATION SUMMARY ●
PATENT APPLICATION US/09/483,672

Input Set: **I483672.RAW**

Line	?	Error/Warning	Original Text
28	W	"N" or "Xaa" used: Feature required	anattantac agtgtaatct tttcccagag gtgtgtan
29	W	"N" or "Xaa" used: Feature required	cccanagata ncttatanca acagtgcttt gaccaaga
31	W	"N" or "Xaa" used: Feature required	ccatcangcc ttcggtggga gggagtcang gaaacaac
32	W	"N" or "Xaa" used: Feature required	ntgatgacca tgggcgggag cgagcctctt ccctgnac
33	W	"N" or "Xaa" used: Feature required	nctgaggggt cacactataa acgttaacga ccnagatn
34	W	"N" or "Xaa" used: Feature required	ttcctacctg acnaccagng accnnnaact gcngcctg
35	W	"N" or "Xaa" used: Feature required	acnnagcact cacctgcccc cccatggccg tncgcntc
36	W	"N" or "Xaa" used: Feature required	ccctgttgga attncgggga naccaaggga nccccctc
37	W	"N" or "Xaa" used: Feature required	gatggaattt tncccttccg gccnntcccc tcttcctt
38	W	"N" or "Xaa" used: Feature required	tccctctntt ntcctgncnc acttttnacc ccnnnatt
39	W	"N" or "Xaa" used: Feature required	ganattccac tnncgcctnc cntcnatcng naanacna
40	E	Number of Bases conflict w/ Running Total	gggnncctcg ntcatcctct ctttttcnct accnccnn
40	E	Wrong Nucleic Acid Designator	gggnncctcg ntcatcctct ctttttcnct accnccnn
40	E	Wrong Nucleic Acid Designator	gggnncctcg ntcatcctct ctttttcnct accnccnn
40	E	Wrong Nucleic Acid Designator	gggnncctcg ntcatcctct ctttttcnct accnccnn
40	W	"N" or "Xaa" used: Feature required	gggnncctcg ntcatcctct ctttttcnct accnccnn
42	E	Input 780820, Calc# Bases 820 differ	<211> 155
67	E	Input 141, Calc Seq.Length 140 differ	<211> 141
90	E	Input 144, Calc Seq.Length 143 differ	<211> 144
113	E	Input 223, Calc Seq.Length 222 differ	<211> 223
146	E	Input 145, Calc Seq.Length 144 differ	<211> 145
169	E	Input 168, Calc Seq.Length 167 differ	<211> 168
196	E	Input 144, Calc Seq.Length 143 differ	<211> 144
219	E	Input 144, Calc Seq.Length 143 differ	<211> 144
272	W	"N" or "Xaa" used: Feature required	Ala Gly Gly Gly Gln Xaa Gln Xaa Asp Ser C
279	E	Invalid/Missing Amino Acid Numbering	245 250
316	E	Invalid/Missing Amino Acid Numbering	245 250
318	E	Input 321, Calc Seq.Length 320 differ	<211> 321
363	E	Input 293, Calc Seq.Length 292 differ	<211> 293
406	E	Input 267, Calc Seq.Length 266 differ	<211> 267
445	E	Input 1229, Calc Seq.Length 1228 differ	<211> 1229
578	E	Invalid/Missing Amino Acid Numbering	1025 1030
588	E	Invalid/Missing Amino Acid Numbering	1105 1110
598	E	Invalid/Missing Amino Acid Numbering	1185 1190
604	E	Input 1262, Calc Seq.Length 1261 differ	<211> 1262
737	E	Invalid/Missing Amino Acid Numbering	1025 1030
747	E	Invalid/Missing Amino Acid Numbering	1105 1110
757	E	Invalid/Missing Amino Acid Numbering	1185 1190
767	E	Input 15, Calc Seq.Length 11 differ	<211> 15
775	E	Input 63, Calc Seq.Length 62 differ	<211> 63
788	E	Input 77, Calc Seq.Length 76 differ	<211> 77
803	E	Input 69, Calc Seq.Length 68 differ	<211> 69
815	W	"N" or "Xaa" used: Feature required	Arg Gln Ala Pro Gly Asn Trp Lys Met Xaa S
822	E	Input 58, Calc Seq.Length 57 differ	<211> 58
835	E	Input 52, Calc Seq.Length 51 differ	<211> 52
848	E	Input 57, Calc Seq.Length 56 differ	<211> 57
861	E	Input 68, Calc Seq.Length 67 differ	<211> 68
876	E	Input 78, Calc Seq.Length 77 differ	<211> 78
891	E	Input 52, Calc Seq.Length 51 differ	<211> 52
904	E	Input 61, Calc Seq.Length 60 differ	<211> 61

VERIFICATION SUMMARY
PATENT APPLICATION **US/09/483,672**

Input Set: **I483672.RAW**

Line	?	Error/Warning	Original Text
917	E	Input 77, Calc Seq.Length 76 differ	<211> 77
932	E	Input 51, Calc Seq.Length 50 differ	<211> 51
945	E	Input 61, Calc Seq.Length 60 differ	<211> 61